

Title (en)
PRESSURE DETECTION APPARATUS AND INTELLIGENT TERMINAL

Title (de)
DRUCKERFASSUNGSVORRICHTUNG UND INTELLIGENTES ENDGERÄT

Title (fr)
APPAREIL DE DÉTECTION DE PRESSION ET TERMINAL INTELLIGENT

Publication
EP 3376195 A4 20181219 (EN)

Application
EP 16899688 A 20160917

Priority
CN 2016099159 W 20160917

Abstract (en)
[origin: US2018081467A1] A pressure detection apparatus includes: a drive power supply, a differential circuit, a pressure calculation unit, and at least one pressure sensor. Each pressure sensor includes a first electrode plate, a second electrode plate, a third electrode plate, a first elastic dielectric layer, and a second elastic dielectric layer. One detection capacitor is formed between the first electrode plate and the second electrode plate, and one detection capacitor is formed between the first electrode plate and the third electrode plate. The pressure sensor is connected between the drive power supply and an input terminal of the differential circuit, and an output terminal of the differential circuit is connected to the pressure calculation unit.

IPC 8 full level
G06F 3/041 (2006.01); **G01L 1/14** (2006.01); **G01L 9/12** (2006.01); **G06F 3/0354** (2013.01); **G06F 3/044** (2006.01); **H03K 17/96** (2006.01); **H03K 17/975** (2006.01)

CPC (source: CN EP KR US)
G01L 1/144 (2013.01 - EP KR US); **G01L 5/223** (2013.01 - EP KR US); **G06F 3/03545** (2013.01 - EP KR US); **G06F 3/0414** (2013.01 - CN); **G06F 3/04142** (2019.04 - KR); **G06F 3/0416** (2013.01 - KR); **G06F 3/0447** (2019.04 - KR); **G06F 3/0488** (2013.01 - CN KR); **G06F 11/3013** (2013.01 - KR); **G06F 11/3058** (2013.01 - KR); **G06V 40/1306** (2022.01 - US); **H03K 17/96** (2013.01 - KR US); **H03K 17/975** (2013.01 - EP KR US); **G06F 3/04142** (2019.04 - EP US); **G06F 3/0447** (2019.04 - EP US); **G06F 11/3013** (2013.01 - EP); **G06F 11/3058** (2013.01 - EP); **G06F 2203/04105** (2013.01 - CN EP KR US)

Citation (search report)
• [A] US 2016117035 A1 20160428 - WATAZU YUJI [JP], et al
• [A] US 2011157087 A1 20110630 - KANEHIRA HIROKI [JP], et al
• [A] US 2016085336 A1 20160324 - KIM SEYEOB [KR], et al
• See references of WO 2018049639A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 10551977 B2 20200204; **US 2018081467 A1 20180322**; CN 107466390 A 20171212; CN 107466390 B 20190514; EP 3376195 A1 20180919; EP 3376195 A4 20181219; EP 3376195 B1 20220420; KR 102006095 B1 20190731; KR 20180041618 A 20180424; WO 2018049639 A1 20180322

DOCDB simple family (application)
US 201715798075 A 20171030; CN 2016099159 W 20160917; CN 201680001270 A 20160917; EP 16899688 A 20160917; KR 20177031322 A 20160917